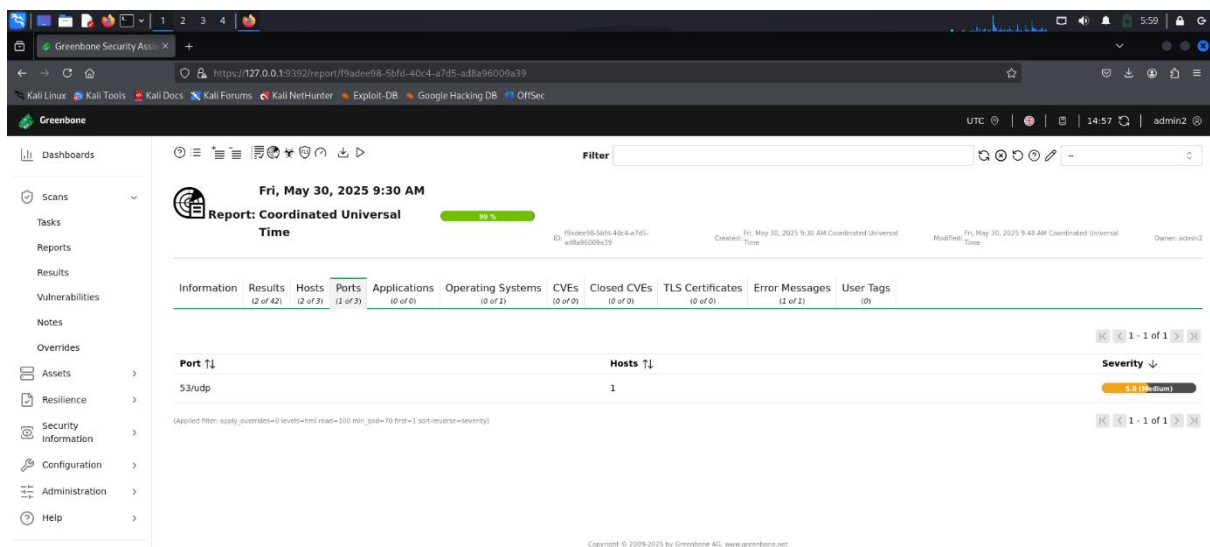
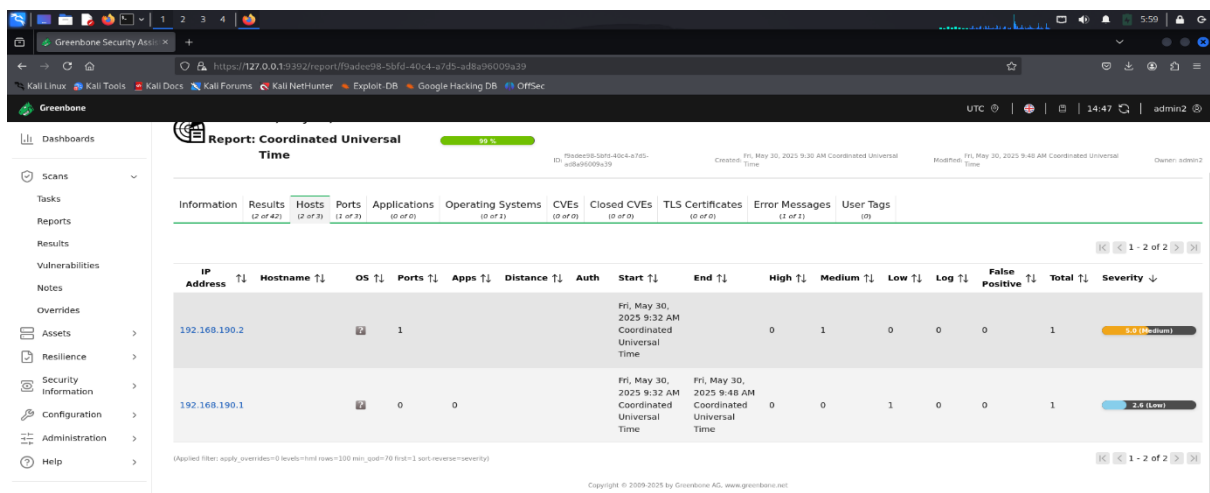
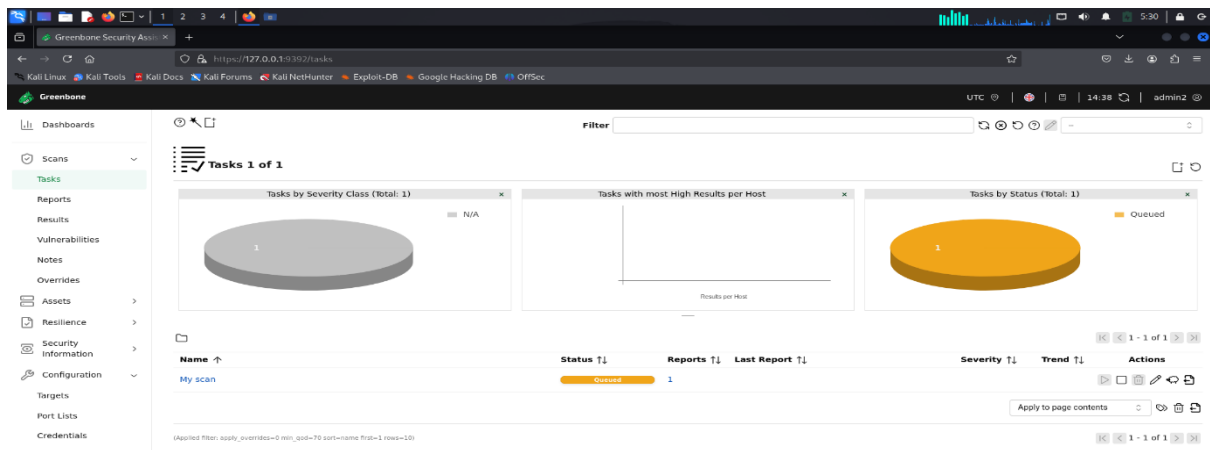


Task 3: Vulnerability Scan Report & Analysis

Overview

This task involved performing a **basic vulnerability scan** on my personal computer using **OpenVAS Community Edition**, a free vulnerability scanner. The goal was to identify security weaknesses, assess their severity, and research potential mitigations.

RESULT SS



Greenbone Security Assi

127.0.0.1:9392/report/9adde98-5bld-40c4-a7d5-ad8a96009a39

Greenbone

UTC

14:45

admin2

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Report: Coordinated Universal Time

99 %

Placeholder ID: ad8a96009a39

Created: Fri, May 30, 2025 9:30 AM Coordinated Universal Time

Modified: Fri, May 30, 2025 9:48 AM Coordinated Universal Time

Owner: admin2

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User Tags

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IP Address	Hostname	OS	Ports	Apps	Distance	Auth	Start	End	High	Medium	Low	Log	False Positive	Total	Severity
192.168.190.2			1				Fri, May 30, 2025 9:32 AM Coordinated Universal Time		0	1	0	0	0	1	5.0 (Medium)
192.168.190.1			0	0			Fri, May 30, 2025 9:32 AM Coordinated Universal Time	Fri, May 30, 2025 9:48 AM Coordinated Universal Time	0	0	1	0	0	1	2.6 (Low)

Applied filter: apply_overrides=0 level=html rows=100 min_goal=70 first=1 sort=reverse=severity

1 - 2 of 2

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127.0.0.1:9392/dashboards

Greenbone

UTC

14:39

admin2

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Overview

Tasks by Severity Class (Total: 1)

Tasks by Status (Total: 1)

CVEs by Creation Time

NVTs by Severity Class (Total: 161634)

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127.0.0.1:9392/reports

Greenbone

UTC

14:43

admin2

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Reports by Severity Class (Total: 1)

Reports with High Results

Reports by CVSS (Total: 1)

1 - 1 of 1

Date	Status	Task	Severity	High	Medium	Low	False Pos.	Actions
Fri, May 30, 2025 9:30 AM Coordinated Universal Time	99 %	My scan	5.0 (Medium)	0	1	1	15	0

Applied filter: apply_overrides=0 min_goal=70 sort=reverse=date first=1 rows=10

1 - 1 of 1

Apply to page contents

Target Details:

IP Address	Hostname	Notes
192.168.190.2	Unknown	Detected DNS cache snooping issue
192.168.190.1	Unknown	Detected TCP timestamp disclosure

Summary of Findings:

Vulnerability Title	Severity	CVSS Score	Affected IP	Port/Protocol
DNS Cache Snooping Vulnerability (UDP) - Active Check	Medium	5.0	192.168.190.2	53/UDP
TCP Timestamps Information Disclosure	Low	2.6	192.168.190.1	TCP (general)

Vulnerability Details & Remediation

1. DNS Cache Snooping Vulnerability (UDP) – Active Check

- **Severity:** Medium (5.0)
- **Host:** 192.168.190.2
- **Port:** 53/UDP
- **Description:** This allows an attacker to determine if a DNS server has recently resolved a specific domain name — used for reconnaissance.
- **Fix/Recommendation:**
 - Disable recursive DNS lookups for untrusted users.
 - Use firewall rules to limit DNS access to trusted hosts.
 - Monitor DNS query logs for unusual patterns.

2. TCP Timestamps Information Disclosure

- **Severity:** Low (2.6)
- **Host:** 192.168.190.1
- **Port:** general/tcp
- **Description:** TCP timestamps can leak system uptime, which may be used to fingerprint systems or plan exploits.
- **Fix/Recommendation:**

- Disable TCP timestamps via OS-level configuration:
 - On Linux, add `net.ipv4.tcp_timestamps = 0` to `/etc/sysctl.conf`
 - Apply changes using `sysctl -p`
- Reboot system if required.

Key Concepts Learned:

- **Vulnerability scanning** helps detect weaknesses before attackers do.
- Tools like **OpenVAS** scan for known issues using signature databases.
- **CVSS (Common Vulnerability Scoring System)** is used to quantify risk.
- Even low-severity issues like information disclosure can contribute to attack chains.